

**APPENDIX A**  
**(Clean Copy Of Amended and New Claims)**

1. (Amended) A dual band antenna for a wireless communication system, comprising:

A1  
a conducting surface for radiating and receiving electromagnetic signals and having a first cutout part having a longitudinal axis and a second cutout part having a longitudinal axis, said first cutout part having a length for producing electromagnetic resonance at a first frequency range, and said second cutout part having a length for producing electromagnetic resonance at a second frequency range, the longitudinal axis of the first cutout part being substantially aligned with the longitudinal axis of the second cutout part;

a feed point connected with said conducting surface around said first cutout part for feeding signals of said first frequency range to said first cutout part and for feeding signals of said second frequency range to said second cutout part; and

a feed line connected with said conducting surface at said feed point for feeding signals to said dual band antenna.

9. (Amended) A dual bend slot antenna for a wireless communication system, comprising:

A2  
a conducting plate for radiating and receiving electromagnetic signals and having a first slot and a second slot, said first slot being elongated for producing electromagnetic resonance at a first frequency range, and said second slot being elongated for producing electromagnetic resonance at a second frequency range, a longitudinal axis of said first cutout part being substantially aligned with a longitudinal axis of said second cutout part;

a feed line connected with said conducting plate around said first slot for feeding signals of said first frequency range to said first slot and for feeding signals of said second frequency range to said second slot.

13. (New) A dual band antenna for a wireless communication system, comprising:

A3  
a conducting surface for radiating and receiving electromagnetic signals and having a first cutout part and a second cutout part, said first cutout part having a length for producing

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electromagnetic resonance at a first frequency range, and said second cutout part having a length for producing electromagnetic resonance at a second frequency range;

A3  
a feed point connected with said conducting surface around said first cutout part for feeding signals of said first frequency range to said first cutout part and for feeding signals of said second frequency range to said second cutout part;

a feed line connected with said conducting surface at said feed point for feeding signals to said dual band antenna;

a grounding location formed on said conducting surface around said first cutout part whereby said feed line is grounded; and

a fixation structure disposed on said conducting surface around said grounding location, said fixation structure having a recess receiving said feed line for providing precise fixation and grounding of said feed line.

14. (New) A dual band antenna for a wireless communication system, comprising:

a conducting surface for radiating and receiving electromagnetic signals and having a first cutout part and a second cutout part, said first cutout part having a length for producing electromagnetic resonance at a first frequency range, and said second cutout part having a length for producing electromagnetic resonance at a second frequency range;

a feed point connected with said conducting surface around said first cutout part for feeding signals of said first frequency range to said first cutout part and for feeding signals of said second frequency range to said second cutout part; and

a feed line connected with said conducting surface at said feed point for feeding signals to said dual band antenna,

wherein at least one of said first cutout part and said second cutout part is trapezoidal.

15. (New) A dual bend slot antenna for a wireless communication system, comprising:

a conducting plate for radiating and receiving electromagnetic signals and having a first slot and a second slot, said first slot elongating for producing electromagnetic resonance at a first frequency range, and said second slot elongating for producing electromagnetic resonance at a

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second frequency range; and

*AB* a feed line connected with said conducting plate around said first slot for feeding signals of said first frequency range to said first slot and for feeding signals of said second frequency range to said second slot,

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wherein two opposing edges of at least one of said first slot and said second slot are not parallel.

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**APPENDIX B**  
**(Marked-Up Copy Of Amended Claims)**

1. (Amended) A dual band antenna for a wireless communication system, comprising:

a conducting surface for radiating and receiving electromagnetic signals and having a first cutout part having a longitudinal axis and a second cutout part having a longitudinal axis, said first cutout part having a length for producing electromagnetic resonance at a first frequency range, and said second cutout part having a length for producing electromagnetic resonance at a second frequency range, the longitudinal axis of the first cutout part being substantially aligned with the longitudinal axis of the second cutout part;

a feed point connected with said conducting surface around said first cutout part for feeding signals of said first frequency range to said first cutout part and for feeding signals of said second frequency range to said second cutout part; and

a feed line connected with said conducting surface at said feed point for feeding signals to said dual band antenna.

9. (Amended) A dual bend slot antenna for a wireless communication system, comprising:

a conducting plate for radiating and receiving electromagnetic signals and having a first slot and a second slot, said first slot [elongating] being elongated for producing electromagnetic resonance at a first frequency range, and said second slot [elongating] being elongated for producing electromagnetic resonance at a second frequency range, a longitude axis of said first  
(<sup>slot</sup>cutout part) being substantially aligned with a longitude axis of said second (<sup>slot</sup>cutout part)

a feed line connected with said conducting plate around said first slot for feeding signals of said first frequency range to said first slot and for feeding signals of said second frequency range to said second slot.

**APPENDIX C**  
**(Clean Copy Of Amended Paragraphs)**

Page 5, line 25 to Page 6, line 5:

Fig. 4 illustrates one example of installation of the dual band planar slot antenna 2 in a LCD panel of a laptop computer system of which only a part of the display is shown for simplicity. The liquid crystal display 31 is confined within the covering 33 of the LCD panel. A bracket 32 surrounds the display 31 and buttresses it as a structural support for providing rigidity to the covering 33 and the liquid crystal display 31 as a whole. The dual band slot antenna 2 is mounted on the bracket 32 at the left edge of the display 31 using screws 271 and 272 and thereby makes use of the space available between the covering 33 and the display 31. Through in this example the dual band slot antenna 2 is embedded in the LCD panel, it is general knowledge of a skilled artist that the present invention is installable and applicable to other devices in other settings.

**APPENDIX D**  
**(Marked-Up Copy Of Amended Paragraph)**

Page 5, line 25 to Page 6, line 5:

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Fig. 4 illustrates one example of installation of the dual band planar slot antenna 2 in a LCD panel of a laptop computer system of which only a part of the display [part] is shown for simplicity. The liquid crystal display 31 is confined within the covering 33 of the LCD panel. A bracket 32 surrounds the display 31 and buttresses it as a structural support for providing rigidity to the covering 33 and the liquid crystal display 31 as a whole. The dual band slot antenna 2 is mounted on the bracket 32 at the left edge of the display 31 using screws 271 and 272 and thereby makes use of the space available between the covering 33 and the display 31. Through in this example the dual band slot antenna 2 is embedded in the LCD panel, it is general knowledge of a skilled artist that the present invention is installable and applicable to other devices in other settings.

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